

# Notice of Allowability

Application No.

10/645,633

Examiner

Jean M Corrielus

Applicant(s)

KOSTOFF, RONALD N.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/23/03.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☒ The drawings filed on 23 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 8/23/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

JEAN M. CORRIELUS  
PRIMARY EXAMINER

## **DETAILED ACTION**

1. This office action is in response to the preliminary amendment filed August 23, 2003, in which claims 1-26 are presented for examination.

### ***Priority***

2. Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged under the provisional application 60/414,416.

### ***Information Disclosure Statement***

3. The information disclosure statement filed on August 23, 2003 complies with the provisions of 37 CFR 1.97 and MPEP § 609. It has been placed in the application file. The information referred to therein has been considered as to the merits.

### ***Allowable Subject Matter***

4. The present application has been thoroughly reviewed. Upon extensive and exhaustive searches of various databases (see search notes in case jacket), the examiner respectfully submits that the claims 1-26 are allowable in light of the prior art made of record (see PTO-892 and PTO 1449).

***Reason for Indicating Allowable Subject Matter***

5. The present invention is directed to literature searching and more specifically to the extraction of useful information from large text databases. The closest prior art, Feldman et al., US patent 6,442,545 is related to a similar system and method for extracting information from database and specifically to text mining in unstructured databases. The system of X provides a taxonomy of taxonomy terms, and mining the documents responsive to the taxonomy to discover a relationship between a set of one or more selected words and at least one of the taxonomy terms and analyzing occurrences of the relationship over a plurality of the documents to extract information relating to the at least one taxonomy term; and Sundaresan et al., US Patent no 6,651,058 is related to the automatic and iterative recognition of relevant terms by association mining and refinement of co-occurrences, and particularly to a software system and associated methods for automatically discovering terms that are relevant to a given target topic from a large databases of unstructured information. However, Feldman and Sundaresan, either singularly or in combination, fail to anticipate or render obvious the recited feature “performing a phrase frequency analysis of at least group of said first set of documents having a greater relevance to said subject matter than other document within said first set of documents to generate a list of phrases including phrase frequency data for each listed phrase; grouping high frequency, high technical content phrases into thematic categories; analyzing phrase co-occurrence of phrases in said phrase frequency analyzed documents to generate a list of co-occurrence pairs, each said co-occurrence pair consisting of an anchor phrase and another listed phrase, to generate a list of co-occurrence pairs including co-occurrence data for each listed co-occurrence pair” in claims 1 and 25; “generating a co-occurrence matrix of high

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technical content phrases for said unstructured field; normalizing matrix cell values of said co-occurrence matrix to generate a normalized matrix for said field and grouping phrases from said unstructured field by clustering techniques on said normalized matrix” in claims 10 and 21; “grouping phrases for each of said unstructured field by clustering techniques on said normalized matrices” in claim 1, in conjunction with all other limitations of the independent and dependent claims 1-26. Therefore, all pending claims 1-26 is hereby allowed.

Since allowance subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this office action. The early submission of formal drawings will permit the office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delay in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for allowance.”

### *Conclusion*


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M. Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on Tuesday - Friday (7:30 am - 5:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone number

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for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean M. Corrielus

Patent Examiner

November 27, 2004